

**WASHINGTON STATE DEPARTMENT OF ECOLOGY  
EASTERN REGIONAL OFFICE  
4601 NORTH MONROE  
SPOKANE, WASHINGTON 99205-1295**

IN THE MATTER OF THE COMPLIANCE BY	)	AIR OPERATING PERMIT
GAS TRANSMISSION NORTHWEST CORPORATION	)	No. 03AQER-5612
COMPRESSOR STATION #8 – WALLULA	)	
with Section 70.94.161 RCW, Operating Permits for	)	<b>FINAL PERMIT</b>
Air Contaminant Sources, and the applicable rules and	)	<b>3rd Revision</b>
regulations of the Department of Ecology	)	

To: Gas Transmission Northwest Corporation  
534 East Trent Avenue, Suite 100  
Spokane, Washington 99202

Issuance Date: February 2, 2006  
Effective Date: February 2, 2006  
Expiration Date: July 1, 2008

**Responsible Official:** Mr. Ross Parker, Regional Director

**Facility Location:** 638 Lambdin Road, 3 miles east of Wallula Junction on U.S. Hwy 12

**Legal Authority:** This Air Operating Permit is issued under the authority and provisions of the Federal Clean Air Act (FCAA), (42 U.S.C. 7401, et seq.), the Washington Clean Air Act, Chapter 70.94 Revised Code of Washington (RCW) and the Operating Permit Regulation, Chapter 173-401 Washington Administrative Code (WAC).

Hereinafter, Gas Transmission Northwest Corporation, Compressor Station #8 is called the permittee. The permittee is required to comply with the provisions contained within this permit.

This 3<sup>rd</sup> Revision to the Renewal Air Operating Permit, DATED at Spokane, Washington, this 2<sup>nd</sup> day of February, 2006.

PREPARED BY:

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## LIST OF ABBREVIATIONS

AOP	Air Operating Permit
BACT	Best Available Control Technology
BTU	British Thermal Units
°C	Degrees Celsius
CAM	Compliance Assurance Monitoring
CFR	Code of Federal Regulations
CO	Carbon Monoxide
dscf	Dry Standard Cubic Foot
dscf/m	Dry Standard Cubic Foot per minute
Ecology	Washington State Department of Ecology
E.I.T.	Engineer in Training
EPA	United States Environmental Protection Agency
°F	Degrees Fahrenheit
FCAA	Federal Clean Air Act
ft <sup>3</sup>	Cubic foot
gr/dscf	Grain per dry standard cubic foot
hr	Hour
MMBtu	Million British Thermal Units
MRRR	Monitoring, Recordkeeping, and Reporting Requirement
MVAC	Motor Vehicle Air Conditioner
N <sub>2</sub>	Nitrogen gas
NGG	Gas generator speed in a natural gas turbine (see explanation under section 13 of SOB)
NOC	Notice of Construction
NO <sub>x</sub>	Oxides of Nitrogen
NSPS	New Source Performance Standard
O <sub>2</sub>	Oxygen
O&M	Operation & Maintenance
P.E.	Professional Engineer
PM	Particulate Matter
PM-10	Particulate Matter with aerodynamic diameter ≤ 10 micrometers
ppm	Parts per million
QIP	Quality Improvement Plan
PSD	Prevention of Significant Deterioration
RACT	Reasonably Available Control Technology
RCW	Revised Code of Washington
RM	EPA Reference Method from 40 CFR Part 60, Appendix A
SERP	Source Emission Reduction Plan
scfm	Standard Cubic Feet per Minute
SIP	State Implementation Plan
SO <sub>2</sub>	Sulfur Dioxide
TAP	Toxic Air Pollutant
TGNMO	Total Gaseous Non-methane Organic (as propane)
TPY	Tons Per Year
TSP	Total Suspended Particulate
VOC	Volatile Organic Compound
WAC	Washington Administrative Code
yr	Year

All information required for submittal throughout this permit, is to be submitted to Ecology, EPA, or both as specified by the applicable requirement, at the following addresses:

Air Quality Program  
Department of Ecology  
4601 North Monroe  
Spokane, Washington 99205-1295

U.S. EPA Region 10 Administrator  
Air Permits MS: OAQ-108  
1200 Sixth Avenue  
Seattle, Washington 98101

## **1. STANDARD CONDITIONS**

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### **1.1 Permit Shield**

**1.1.1** Compliance with the terms and conditions of this permit shall be deemed compliance with those applicable requirements that are specifically included and identified in this permit as of the date of permit issuance.

**1.1.2** The permit shield shall not apply to any insignificant emissions unit or activity designated under WAC 173-401-530.

[WAC 173-401-530(3), 09/16/02], [WAC 173-401-640(1), 09/16/02]

**1.2 Enforceability** All terms and conditions of the permit are enforceable by the EPA and citizens unless specifically designated as state-only enforceable.

[WAC 173-401-625, 09/16/02]

**1.3 Permit Fees** The permittee shall pay fees as a condition of this permit in accordance with Ecology's fee schedule. Failure to pay fees in a timely fashion shall subject the permittee to civil and criminal penalties as prescribed in chapter 70.94 RCW. Ecology may revoke this operating permit if the permit fees are not paid, per WAC 173-401-930(3).

[WAC 173-401-620(2)(f), 930(3), 09/16/02], [RCW 70.94.162(1), 1/4/01 (S)], [Order No. DE 97AQ-E135, Issued 08/27/97, Approval Condition 9.9]

**1.4 Permit Continuation** This permit and all terms and conditions contained therein, including any permit shield provided under WAC 173-401-640, shall not expire until the renewal permit has been issued or denied if a timely and complete application has been submitted. An application shield granted pursuant to WAC 173-401-705(2) shall remain in effect until the renewal permit has been issued or denied if a timely and complete application has been submitted.

[WAC 173-401-620(2)(j), 09/16/02]

**1.5 Property Rights** This permit does not convey any property rights of any sort, or any exclusive privilege.

[WAC 173-401-620(2)(d), 09/16/02]

**1.6 Inspection and Entry** Upon presentation of credentials and other documents as may be required by law, the permittee shall allow Ecology, EPA, or an authorized representative to perform the following:

**1.6.1** Enter upon the permittee's premises where a chapter 401 source is located or emissions-related activity is conducted, or where records must be kept under the conditions of this permit.

**1.6.2** Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit.

**1.6.3** Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.

- 1.6.4** As authorized by WAC 173-400-105 and the FCAA, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements.
- 1.6.4.1** Ecology may require the permittee to conduct stack testing and/or ambient air monitoring and report the results to Ecology.
- 1.6.4.2** Ecology may conduct or require that a test be conducted using approved methods from 40 CFR parts 51, 60, 61 and 63 (in effect on February 20, 2001), or Ecology's Source Test Manual – Procedures for Compliance Testing. The permittee shall be required to provide platform and sampling ports. Ecology shall be allowed to obtain a sample from any emissions unit. The permittee shall be given the opportunity to observe the sampling and to obtain a sample at the same time.
- 1.6.5** No person shall obstruct, hamper, or interfere with any such authorized representative while in the process of carrying out his official duties.
- 1.6.6** Nothing in this condition shall limit the ability of EPA to inspect or enter the premises of the permittee under Section 114 or other provisions of the FCAA.
- [WAC 173-401-630(2), 09/16/02], [WAC 173-400-105(2),(4), 8/20/93, 07/11/02 (S)], [RCW 70.94.200, 1/4/01 (S)], [Order No. PSD-01-06 First Amendment, Issued 11/14/02, Approval Condition 16], [Order No. 02AQER-3949 Second Amendment, Issued 11/17/04, Approval Conditions 3.6.10, 3.10.3], [Order No. DE 97AQ-E135, Issued 08/27/97, Approval Conditions 2.2, 9.3], [40 CFR 60.8(e), 07/01/02]

- 1.7 Duty to Comply** The permittee must comply with all conditions of this chapter 173-401 operating permit. Any permit noncompliance constitutes a violation of chapter 70.94 RCW and, for federally enforceable provisions, a violation of the FCAA. Such violations are grounds for enforcement action; for permit termination, revocation and re-issuance, or modification; or for denial of a permit renewal application.

[WAC 173-401-620(2)(a), 09/16/02], [Order No. PSD-01-06 First Amendment, Issued 11/14/02, Approval Condition 15], [Order No. 02AQER-3949 Second Amendment, Issued 11/17/04, Approval Conditions 1.0, 3.10.4, 3.10.9, 3.10.10, 3.10.10.1, 3.10.10.2], [Order No. DE 97AQ-E135, Issued 08/27/97, Approval Conditions 9.7, 9.8]

- 1.8 Duty to Provide Information** The permittee shall furnish to Ecology, within a reasonable time, any information that Ecology may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to Ecology copies of records required to be kept by this permit or, for information claimed to be confidential, the permittee may furnish such records directly to Ecology along with a claim of confidentiality. Ecology shall maintain confidentiality of such information in accordance with RCW 70.94.205.

No person shall make any false material statement, representation or certification in any form, notice or required report. No person shall render inaccurate any required monitoring device or method.

[WAC 173-401-620(2)(e), 09/16/02], [WAC 173-400-105(7), (8), 8/20/93, 07/11/02 (S)]

- 1.9 Duty to Supplement or Correct Application** The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information. The permittee shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete renewal application was submitted but prior to release of a draft permit.

[WAC 173-401-500(6), 09/16/02]

- 1.10 Need to Halt or Reduce Activity not a Defense** It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

[WAC 173-401-620(2)(b), 09/16/02], [Order No. 02AQER-3949 Second Amendment, Issued 11/17/04, Approval Condition 3.10.5]

- 1.11 Excess Emissions Due to an Emergency** The permittee may seek to establish that noncompliance with a technology-based<sup>1</sup> emission limitation under this permit was due to an emergency.<sup>2</sup> To do so, the permittee shall demonstrate the affirmative defense of emergency through properly signed, contemporaneous operating logs, or other relevant evidence that:

- 1.11.1** An emergency occurred and that the permittee can identify the cause(s) of the emergency,
- 1.11.2** The permitted facility was being properly operated at the time of the emergency,
- 1.11.3** During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in this permit, and
- 1.11.4** The permittee submitted notice of the emergency to Ecology within two (2) working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

[WAC 173-401-645, 09/16/02]

- 1.12 Unavoidable Excess Emissions** Excess emissions determined to be unavoidable under the procedures and criteria in WAC 173-400-107 shall be excused and not subject to penalty.

- 1.12.1** The permittee shall have the burden of proving to Ecology that excess emissions were unavoidable. This demonstration shall be a condition to obtaining relief under 1.12.2, 1.12.3, or 1.12.4.
- 1.12.2** Excess emissions due to startup or shutdown conditions shall be considered unavoidable provided the source reports as required under Condition 1.13.1 and adequately demonstrates that the excess emissions could not have been prevented through careful planning and design and if a bypass of control equipment occurs, that such bypass is necessary to prevent loss of life, personal injury, or severe property damage.
- 1.12.3** Excess emissions due to scheduled maintenance shall be considered unavoidable if the source reports as required under Condition 1.13.1 and adequately demonstrates that the excess emissions could not have been avoided through reasonable design, better scheduling for maintenance or through better operation and maintenance practices.
- 1.12.4** Excess emissions due to upsets shall be considered unavoidable provided the source reports as required under Condition 1.13.1 and adequately demonstrates that:

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<sup>1</sup> Technology-based emission limits are those established on the basis of emission reductions achievable with various control measures or process changes (e.g., a new source performance standard) rather than those established to attain a health based air quality standard.

<sup>2</sup> An "emergency" means any situation arising from sudden and reasonably enforceable events beyond the control of this source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes this source to exceed a technology-based emission limitation under this permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

- 1.12.4.1** The event was not caused by poor or inadequate design, operation, maintenance, or any other reasonably preventable condition.
- 1.12.4.2** The event was not of a recurring pattern indicative of inadequate design, operation, or maintenance.
- 1.12.4.3** The operator took immediate and appropriate corrective action in a manner consistent with good air pollution control practice for minimizing emissions during the event, taking into account the total emissions impact of the corrective action, including slowing or shutting down the emission unit as necessary to minimize emissions, when the operator knew or should have known that an emission standard or permit condition was being exceeded.

[WAC 173-400-107(3), 8/20/93, 07/11/02 (S)], [WAC 173-400-107, 8/20/93, 07/11/02 (S)]

## **1.13 Reporting**

- 1.13.1 Monthly Deviation Reports** The permittee shall report deviations from permit requirements, including those attributable to upset conditions as defined in this permit, and include the following information: the time the deviation occurred, the duration of the deviation, the magnitude of the deviation in relation to the applicable limit, the probable cause of the deviation, and any corrective actions or preventive measures taken. Such deviations shall be reported “promptly” to Ecology at the address included in this permit.

For deviations which represent a potential threat to human health or safety, “prompt” means as soon as possible, but in no case later than twelve (12) hours after the deviation is discovered. For deviations which the source believes to be unavoidable, “prompt” means as soon as possible. For deviations which represent a potential threat to human health or safety or which the source believes to be unavoidable, the initial report shall contain all available information regarding the deviation and may be submitted via e-mail or fax to the appropriate Ecology personnel. No later than thirty days after the end of each month, the permittee shall submit a report describing any other deviations that were discovered that month. Upon request by Ecology, the permittee shall submit a full written report including further details regarding the known causes, the corrective actions taken, and the preventative measures to be taken to minimize or eliminate the chance of recurrence. The source shall maintain a contemporaneous record of all deviations. Responsible official certification in accordance with Condition 1.13.5 of monthly deviation reports shall be included in each semi-annual monitoring report covering all deviation reports made during the previous six month period.

[WAC 173-401-615(3)(b), 09/16/02], [WAC 173-400-107, 8/20/93, 07/11/02 (S)], [WAC 173-401-630(1), 09/16/02], [Order No. DE 97AQ-E135, Issued 08/27/97, Approval Conditions, 6.5, 7.5], [Order No. PSD-01-06, Issued 11/14/02, Approval Condition 12(e)], [40 CFR 60.334(c)(2), 07/01/02]

- 1.13.2 Semi-Annual Monitoring Reports** The permittee shall submit semi-annual reports which include monitoring, recordkeeping, and/or reporting information that is required to be submitted every six (6) months. Six-month periods shall be twice each calendar year from January 1<sup>st</sup> through June 30<sup>th</sup>, and from July 1<sup>st</sup> through December 31<sup>st</sup>. Semi-annual monitoring reports shall be due no later than forty-five (45) days following the end of each six (6) month period. The first semi-annual monitoring report submitted under this Renewal AOP shall include all information required to be submitted under the original AOP as well as any additional information required under the Renewal AOP. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official consistent with Condition 1.13.6.

[WAC 173-401-615(3)(a), 09/16/02]

**1.13.3 Compliance Certifications** The permittee shall submit a certification of compliance with permit terms and conditions at least once per calendar year. All certifications shall be submitted no later than forty-five (45) days following the end of the certification period. Upon issuance of this final permit, a final compliance certification shall be submitted under the original AOP for the period of time between the latest certification submitted and the renewal permit effective date. The first certification submitted under this renewal AOP shall cover the period of time between the renewal permit effective date and the end of that calendar year. Ecology may require that compliance certifications be submitted more frequently for those emission units not in compliance with permit terms and conditions, or where more frequent certification is specified in the applicable requirement.

[WAC 173-401-630(5)(a), 09/16/02], [WAC 173-401-630(1), 09/16/02]

**1.13.3.1** The certification shall describe and include the following:

**1.13.3.1.1** The permit term or condition that is the basis of the certification.

**1.13.3.1.2** The current compliance status.

**1.13.3.1.3** Whether compliance was continuous or intermittent.

**1.13.3.1.4** The methods used for determining compliance, currently and over the reporting period consistent with WAC 173-401-615(3)(a).

[WAC 173-401-630(5)(c), 09/16/02]

**1.13.3.2** All compliance certifications shall be submitted to Ecology and EPA Region 10 at the respective addresses included in this permit.

[WAC 173-401-630(5)(d), 09/16/02]

**1.13.3.3** The permittee need not certify compliance for insignificant emission units or activities.

[WAC 173-401-530(2)(d), 09/16/02]

**1.13.3.4** All compliance certifications shall include certification by a responsible official in accordance with Condition 1.13.5.

**1.13.3.5** For the purpose of submitting compliance certifications, or establishing whether or not a person has violated or is in violation of any requirement of this permit, nothing shall preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test had been performed.

[40 CFR 52.33(a), 07/01/02], [40 CFR 60.11(g), 07/01/02]

**1.13.4 Emission Inventory** The permittee shall submit an inventory of actual emissions from the source for each calendar year. The inventory shall include segmented stack and fugitive emissions of TSP, PM-10, SO<sub>2</sub>, CO, NO<sub>x</sub>, lead, and VOC's, and shall be submitted no later than **April 15<sup>th</sup>** of the following year. The source shall maintain records of information necessary to substantiate any reported emissions, consistent with the averaging times for the applicable standards. Emissions inventories shall be sent to Ecology at the address included in this permit.

[WAC 173-400-105(1), 8/20/93, 07/11/02 (S)]

**1.13.5 Submittals** Reports, test data, monitoring data, notifications, certifications, and applications (including requests for renewal) shall be submitted to Ecology at the address included in this



permit. Any document submitted to Ecology pursuant to this permit shall contain certification of truth, accuracy, and completeness by a responsible official. All certifications shall state that *“based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete”*. The permittee shall promptly, upon discovery, report to Ecology any material error or omission in these records, reports, plans or other documents.

[WAC 173-401-520, 09/16/02], [WAC 173-401-500(6), 09/16/02]

- 1.14 Severability** If any provision of this permit, or application of any provision of this permit, is held to be invalid, all unaffected provisions of the permit shall remain in effect and be enforceable.

[WAC 173-401-620(2)(h), 09/16/02], [RCW 70.94.905, 1/4/01 (S)], [Order No. 02AQER-3949 Second Amendment, Issued 11/17/04, Approval Condition 3.10.11]

## **1.15 Administrative Permit Amendments**

- 1.15.1** An administrative permit amendment is a permit revision that:

- 1.15.1.1** Allows for a change in ownership or operational control of this source where the permitting authority has determined that no other change in this permit is necessary and provided that a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new permittee has been submitted to Ecology,
- 1.15.1.2** Corrects typographical errors within the permit,
- 1.15.1.3** Identifies a change in the name, address, or phone number of any person identified in the permit, or provides for a similar minor administrative change at the source,
- 1.15.1.4** Requires more frequent monitoring or reporting by the permittee, or
- 1.15.1.5** Incorporates into the permit the terms, conditions, and provisions from orders approving notice of construction applications processed under an EPA-approved program, provide that such a program meets procedural requirements substantially equivalent to the requirements of WAC 173-401-700, 173-401-725, and 173-401-800 that would be applicable to the change if it were subject to review as a permit modification, and compliance requirements substantially equivalent to those contained in WAC 173-401-600 through 173-401-650.

- 1.15.2** The source may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request.

- 1.15.3** The permitting authority shall, upon taking final action granting a request for an administrative permit amendment, allow coverage by the permit shield in WAC 173-401-640 for administrative permit amendments made pursuant to condition 1.15.1.5 above.

[WAC 173-401-720, 09/16/02]

- 1.16 Permit Actions** This operating permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and re-issuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

[WAC 173-401-620(2)(c), 09/16/02]

## **1.17 Reopening for Cause**

**1.17.1** Ecology will reopen and revise this permit as necessary to remedy deficiencies in the following circumstances:

**1.17.1.1** Additional requirements under the FCAA become applicable to a major source three (3) or more years prior to the expiration date of this permit. Such a reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the expiration date of this permit, unless the original permit or any of its terms and conditions have been extended pursuant to WAC 173-401-620(2)(j).

**1.17.1.2** Ecology or the Administrator determines that this permit contains a material mistake or inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.

**1.17.1.3** Ecology or the Administrator determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

**1.17.2** Proceedings to reopen and issue this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening shall be made as expeditiously as practicable.

**1.17.3** Reopenings shall not be initiated before a notice of intent to reopen is provided to the permittee by Ecology at least 30 days in advance of the date that this permit is to be reopened, except that Ecology may provide a shorter time period in the case of an emergency.

**1.17.4** All permit conditions remain in effect until such time as Ecology takes final action.

[WAC 173-401-730, 09/16/02]

**1.18 Off-Permit Changes** The permittee is allowed to make certain changes that are not specifically addressed or prohibited by this permit without a permit revision. All such changes must meet the following conditions:

**1.18.1** The proposed changes shall not weaken the enforceability of any existing permit conditions.

**1.18.2** Each such change shall meet all applicable requirements and shall not violate any existing permit term or condition.

**1.18.3** Before or contemporaneously with making the permit change, the permittee must provide written notice to Ecology and EPA Region 10 at the respective addresses included in this permit. Such written notice shall describe each such change, including the date, any change in emissions or pollutants emitted, and any applicable requirements that would apply as a result of the change.

**1.18.4** The change shall not qualify for the permit shield under Condition 1.1.

**1.18.5** The permittee shall record all changes that result in emissions of any regulated air pollutant subject to any applicable requirement, but not otherwise regulated under this permit, and the emissions resulting from those changes. The record shall reside at the permitted facility.

**1.18.6** A source making a change under this section shall comply with the preconstruction review requirements established pursuant to Condition 1.20.

[WAC 173-401-724, 09/16/02]

## **1.19 Changes not Requiring Permit Revisions**

**1.19.1** *Section 502(b)(10) changes.* The permittee is authorized to make section 502(b)(10) changes, as defined in WAC 173-401-200(28), without a permit revision, providing the conditions included

below are met. The permit shield as described in Condition 1.1 shall not apply to any change made pursuant to this paragraph.

- 1.19.1.1** The proposed changes are not Title I (FCAA) modifications;
- 1.19.1.2** The proposed changes do not result in emissions which exceed those allowable under the permit, whether expressed as a rate of emissions, or in total emissions;
- 1.19.1.3** The proposed changes do not alter permit terms that are necessary to enforce limitation on emissions from units covered by the permit;
- 1.19.1.4** The facility provides Ecology and EPA with written notification at least seven days prior to making the proposed changes except that written notification of a change made in response to an emergency shall be provided as soon as possible after the event;
  - 1.19.1.4.1** The written notification shall include a brief description of the change within the permitted facility, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.

**1.19.2** *Changes related to Emissions trading under an emissions cap.* Pursuant to Condition 1.19.1, the permittee is authorized to trade increases and decreases in emission in the permitted facility, where the Washington state implementation plan provides for such emissions trades without requiring a permit revision. This provision is available in those cases where the permit does not already provide for such emissions trading. Such changes shall be subject to the following:

- 1.19.2.1** The written notification required under Condition 1.19.1.4 shall include such information as may be required by the provision in the Washington SIP authorizing the emissions trade, including at a minimum, when the proposed change will occur, a description of each such change, any change in emissions, the permit requirements with which the source will comply using the emissions trading provisions of the Washington SIP, and the pollutants emitted subject to the emissions trade. The notice shall also refer to the provisions with which the source will comply in the applicable implementation plan and that provide for the emissions trade. The notification shall state how any increases or decreases in emissions will comply with the terms and conditions of the permit. (The permit shield described under Condition 1.1 shall extend to terms and conditions that allow such increases and decreases.)
- 1.19.2.2** The permit shield described in Condition 1.1 shall not extend to any change made under this paragraph. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the applicable implementation plan authorizing the emissions trade.
- 1.19.2.3** Upon the request of the permit applicant, Ecology shall issue permits that contain terms and conditions, including all terms required under WAC 173-401-600 through 173-401-630 to determine compliance, allowing for the trading of emissions increases and decreases in the chapter 173-401 WAC source solely for the purpose of complying with a federally enforceable emissions cap that is established in the permit independent of otherwise applicable requirements. The permit applicant shall include in its application proposed replicable procedures and permit terms that ensure the emissions trades are quantifiable and enforceable. The emissions trading provision shall not be applied to any emissions units for which emission are not quantifiable or

for which there are no replicable procedures to enforce the emissions trades. The permit shall also require compliance with all applicable requirements.

**1.19.2.4** A source making a change under this section shall comply with applicable preconstruction review requirements established pursuant to Condition 1.20.

**1.19.2.5** No permit revision shall be required, under any approved economic incentives, marketable permits, and other similar programs or processes for changes that are provided for in this permit such as emissions trading.

[WAC 173-401-722, 09/16/02], [WAC 173-401-620(2)(g), 09/16/02]

**1.20 New Source Review** The permittee shall not construct new sources or make modifications required to be reviewed under WAC 173-400-110, WAC 173-400-113, WAC 173-400-141, or WAC 173-460 before the permittee obtains written final approval from Ecology in accordance with those regulations, pays the appropriate fees required by WAC 173-400-116, and pays the cost of public notice described in WAC 173-400-171.

[WAC 173-400-110, 8/20/93, 07/11/02 (S)], [WAC 173-400-113, 8/20/93, 07/11/02 (S)], [WAC 173-400-116, 07/11/02 (S)], [WAC 173-400-141, 07/11/02 (S)], [WAC 173-400-171, 8/20/93, 07/11/02 (S)], [WAC 173-460, 7/21/98 (S)], [RCW 70.94.152, 1/4/01 (S)]

**1.21 Replacement or Substantial Alteration of Emission Control Technology.** Prior to replacing or substantially altering emission control technology subject to review under WAC 173-400-114, the permittee shall file for and obtain approval from Ecology according to that regulation. The permittee shall pay the appropriate fees required by WAC 173-400-045(4) prior to commencing construction.

[WAC 173-400-045(4), 07/11/02 (S)], [WAC 173-400-114, 07/11/02 (S)], [RCW 70.94.153, 1/4/01 (S)]

**1.22 Operational Flexibility**

**1.22.1** In the event that an emission unit is not operated during a period equal to or greater than the monitoring period designated, no monitoring is required. Recordkeeping and reporting must note the reason why and length of time that the emission unit was not operated.

**1.22.2** The permittee did not propose any further alternative operating scenarios.

[WAC 173-401-650, 09/16/02]

**1.23 Permit Appeals** This permit or any conditions in it may be appealed only by filing an appeal with the Pollution Control Hearings Board, P.O. Box 40903, Olympia, WA 98504-0903 and concurrently serving it on the Department of Ecology, P.O. Box 47600, Olympia, WA 98504-7600 and the Department of Ecology, Regional Air Quality Section, 4601 North Monroe, Spokane, WA 99205-1295 within thirty days of receipt of this permit, pursuant to RCW 43.21B.310. This provision for appeal in this section is separate from and additional to any federal rights to petition and review under § 505(b) of the FCAA.

[WAC 173-401-620(2)(i), 09/16/02]

**1.24 Federal Chlorofluorocarbons (CFC) Requirements – Title VI of the FCAA**

**1.24.1** The permittee shall comply with the following standards for recycling and emissions reductions pursuant to 40 CFR 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in subpart B.

**1.24.1.1** Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices pursuant to 40 CFR 82.156.

- 1.24.1.2** Equipment used during the maintenance, service, repair or disposal must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- 1.24.1.3** Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.
- 1.24.1.4** Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. (“MVAC-like appliance” is defined at 40 CFR 82.152.)
- 1.24.1.5** Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156.
- 1.24.1.6** Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep servicing records documenting the date and type of service, as well as the quantity of refrigerant added. The owner/operator must keep records of refrigerant purchased and added to such appliances in cases where owners add their own refrigerant. Such records should indicate the date(s) when refrigerant is added pursuant to 40 CFR 82.166.
- 1.24.1.7** Persons conducting maintenance, service, repair, or disposal of appliances must follow the prohibitions pursuant to 40 CFR 82.154.
- 1.24.1.8** Person performing maintenance, service, repair, or disposal of appliances must certify to the Administrator that such person has acquired certified recovery of recycling equipment pursuant to 40 CFR 82.162.

**1.24.2** If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR 82, Subpart A – Production and Consumption Controls.

**1.24.3** If the permittee performs a service on monitor (fleet) vehicles and when this service involves ozone depleting substance refrigerant in the MVAC, the permittee is subject to all applicable requirements as specified in 40 CFR 82, Subpart B – Servicing of Motor Vehicle Air Conditioners.

**1.24.4** The permittee shall be allowed to switch from any ozone depleting substance to any alternative that is listed in the Significant New Alternative Program promulgated pursuant to 40 CFR 82, Subpart G – Significant New Alternative Policy Program.

[40 CFR 82, 07/01/02], [RCW 70.94.970, 1/4/01 (S)], [RCW 70.94.980, 1/4/01 (S)]

**1.25 Reasonably Available Control Technology (RACT)** Emission standards and other requirements contained in rules or regulatory orders in effect at the time of operating permit issuance or renewal shall be considered RACT for the purpose of permit issuance or renewal. RACT determinations under section 8, chapter 252, Laws of 1993 shall be incorporated into an operating permit as provided in WAC 173-401-730.

[WAC 173-401-605(3), 09/16/02], [RCW 70.94.154, 1/4/01 (S)]

## **1.26 Compliance Schedules**

**1.26.1** The permittee shall continue to comply with applicable requirements with which it is currently in compliance. The permittee shall meet applicable requirements on a timely basis that become effective during the permit term.

[WAC 173-401-510(2)(h)(iii)(A), 09/16/02], [WAC 173-401-510(2)(h)(iii)(B), 09/16/02]

## **1.27 Record Keeping**

**1.27.1** The permittee shall keep records of required monitoring information that includes, where applicable, the following:

**1.27.1.1** The date, place, and time of the sampling or measurements.

**1.27.1.2** The date(s) analyses were performed.

**1.27.1.3** The company or entity that performed the analysis.

**1.27.1.4** The analytical techniques or methods used.

**1.27.1.5** The results of such analyses.

**1.27.1.6** The operating conditions as existing at the time of sampling or measurement.

[WAC 173-401-615(2)(a), 09/16/02]

**1.27.2** The permittee shall keep records describing changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.

[WAC 173-401-615(2)(b), 09/16/02]

**1.27.3** The permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings from continuous monitoring instrumentation, and copies of all reports required by this permit.

[WAC 173-401-615(2)(c), 09/16/02]

**1.27.4** All required recordkeeping shall be available to Ecology in accordance with Condition 1.6.

[WAC 173-401-630(2)(b), 09/16/02], [40 CFR 60.7(b), 60.7(f), 07/01/02]

## **1.28 General Obligation** Nothing in this permit shall alter or affect the following:

**1.28.1** The provisions of section 303 of the FCAA (emergency orders), including the authority of EPA under that section.

**1.28.2** The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance.

**1.28.3** The applicable requirements of the acid rain program, consistent with section 408(a) of the FCAA.

**1.28.4** The ability of EPA to obtain information from a source pursuant to section 114 of the FCAA.

**1.28.5** The ability of Ecology to establish or revise requirements for the use of reasonably available control technology (RACT) as provided in chapter 252, Laws of 1993.

[WAC 173-401-640(4), 09/16/02]

**1.29 Permit Renewal and Expiration** This permit is issued for a fixed term of 5 years. The permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application (as outlined in WAC 173-401-510) is submitted at least 12 months, but no greater than 18 months prior to the date of permit expiration. A complete renewal application is due no later than July 1, 2007. Upon receipt of a timely and complete application for renewal, this source may continue to operate subject to final action by Ecology on the renewal application. This allowance shall cease to apply if, subsequent to a completeness determination, the applicant fails to submit by the deadline specified in

writing by Ecology, any additional information identified as being needed to process the application. The application shall be sent to Ecology at the address included in this permit.

[WAC 173-401-610; 173-401-710, 09/16/02]

- 1.30 Demolition and Renovation (asbestos)** Prior to, during and after conducting any activity to which 40 CFR 61, Subpart M – National Emission Standard for Asbestos, applies, the permittee shall comply with the requirements of that rule. Such activities include notification, demolition, renovation, asbestos stripping or removal, installing or reinstalling insulation, manufacturing or fabricating certain items, spraying of certain materials, constructing roadways of certain materials, or disposal.

[40 CFR 61, Subpart M, 07/01/02], [WAC 173-400-075(1), 07/11/02 (S)]

## 2. APPLICABLE REQUIREMENTS

Until this permit expires, is modified or revoked, this permittee is authorized to operate the processes outlined in Sections 2.1 through 2.5. These processes are subject to the conditions included in Sections 2.1, through 2.5, to the MRRR's listed in Section 3. Monitoring, Recordkeeping, and Reporting Requirements, and to other terms and conditions specified in this permit.

The column entitled **Description** in each table contains only a summary/paraphrase of the condition, emission standard or work practice. The condition, emission standard, or work practice itself is the enforceable requirement and should be referenced for actual language.

Condition numbers that are denoted with an asterisk indicate that streamlining of an identical or less stringent requirement has taken place and is described in section 12.0 of the Statement of Basis.

### Testing Requirements

Although there are many conditions with no on-going testing requirements, Ecology retains the authority to conduct or require that testing be conducted at the facility with respect to these conditions per WAC 173-400-105(4). Identification of the appropriate test method is necessary to make emission limits fully enforceable. Where the underlying applicable requirement does not specify the test method, Ecology has done so in this permit.

[WAC 173-401-615(1)(a), 09/16/02], [WAC 173-401-630(1), 09/16/02], [WAC 173-400-105(4), 07/11/02]

### 2.1 Section #1, Facility Wide

This section is applicable and enforceable with respect to all emission units source wide, including those emission units in Sections 2.2 through 2.5. Monitoring, recordkeeping and reporting requirements in this section do not apply to insignificant emission units.

**TABLE 2.1**

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2.1.1	WAC 173-400-040(1), (1)(a), and (1)(b) 8/20/93	F	Visible emissions shall not exceed 20% opacity for more than 3 minutes in any one hour	RM 9A	5M
	WAC 173-400-040(1), (1)(a), and (1)(b) 07/11/02	S			
2.1.2	WAC 173-400-060 8/20/93	F	General process units are required to meet all applicable provisions of WAC 173-400-040 and emissions of particulate material from any operation shall not exceed 0.1 grain/dscf of exhaust gas	RM 5	5M
	WAC 173-400-060 07/11/02	S			



Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2.1.3	WAC 173-400-040(2) 07/11/02	S	Particulate matter shall not be deposited beyond the property in sufficient quantity to interfere unreasonably with the use and enjoyment of other's property		3M
2.1.4	WAC 173-400-040(3)(a), (8)(a) 8/20/93	F	The source shall perform maintenance to minimize emissions and take reasonable precautions to prevent fugitive dust from becoming airborne		3M
	WAC 173-400-040(3)(a), (8)(a) 07/11/02	S			
2.1.5	WAC 173-400-040(3)(a), (8)(a) 07/11/02	S	Fugitive dust control measures shall be taken to prevent fugitive emissions		5M
2.1.6	WAC 173-400-040(4) 07/11/02	S	The permittee shall prevent odor production as described – detection of odors beyond the facility boundary shall require remedial measures as described		3M
	Order No. 02AQER-3949 Second Amendment Issued 11/17/04 Approval Condition 3.10.1	F			
2.1.7	WAC 173-400-040(5) 8/20/93	F	No person shall cause or permit the emission of any air contaminant if it is detrimental to the health, safety, or welfare of any person, or causes damage to property or business		3M
	WAC 173-400-040(5) 07/11/02	S			
2.1.8	WAC 173-400-040(7) 8/20/93	F	No person shall conceal or mask an emission of an air contaminant		1M
	WAC 173-400-040(7) 07/11/02	F			
2.1.9	WAC 173-400-200(2) 8/20/93	F	No source may use dispersion techniques or excess stack height to meet ambient air quality standards or PSD increment limitations		1M
	WAC 173-400-200(2) 07/11/02	S			

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2.1.10	WAC 173-400-205 8/20/93 WAC 173-400-205 07/11/02	F S	Varying the rate of emission of a pollutant according to atmospheric conditions is prohibited, except as directed according to air pollution episode regulations		1M
2.1.11	RCW 70.94.040 1/4/01	S	Causing air pollution in violation of Chapter 70.94 RCW is unlawful		1M
2.1.12	Chapter 173-425 WAC – Restriction on Open Burning Order No. DE 97AQ-E135 Issued 08/27/97 Approval Condition 9.6	F F	Open burning is subject to restrictions		2M
2.1.13	WAC 173-400-040, 1 <sup>st</sup> ¶ 8/20/93 WAC 173-400-040, 1 <sup>st</sup> ¶ 07/11/02 (RCW 70.94.154(1))	F S	All emissions units are required to use RACT		4M
2.1.14	Order No. 02AQER-3949 Second Amendment Issued 11/17/04 Approval Condition 3.8.4	F	Permittee shall provide notification to Ecology of any complaints within three (3) days		3M

## 2.2 Section #2, Compressor Unit 8A (Solar Titan Gas Turbine, 19,500 hp)

TABLE 2.4

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2.2.1	Order No. 02AQER-3949 Second Amendment Issued 11/17/04 Approval Condition 3.5.1, 3.6.7	F	Opacity shall not exceed 5 percent (6-minute average)	RM 9	5M

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2.2.2*	Order No. PSD-01-06 First Amendment Issued 11/14/02 Approval Conditions 4, 9(a), 9(b), 9(c), 10, 12(b), 12(c), 12(d), 12(e)	F	NO <sub>x</sub> emissions shall be ≤ 25.0 ppm (hourly average ambient temperature ≥ 0°F) or ≤ 42.0 ppm (hourly average ambient temperature < 0°F) or 0.334 lb/mscf for startup/shutdown/step to idle/load change conditions. All limits corrected to 15% O <sub>2</sub> on a one-hour average – NO <sub>x</sub> emissions shall not exceed 88.0 tons per year on a 12-month rolling time period	RM 20	7M, 8M, 9M
	Order No. 02AQER-3949 Second Amendment Issued 11/17/04 Approval Conditions 3.1.1, 3.4.4, 3.4.5, 3.4.6, 3.5.1, 3.5.2, 3.6.3, 3.6.3.1, 3.6.3.1.1, 3.6.3.1.2, 3.6.3.1.3, 3.6.5, 3.6.7, 3.6.8, 3.6.9, 3.6.11, 3.6.12, 3.8.2, 3.8.5, 3.8.7, 3.9.1	F			
	40 CFR 60.7(b), 60.8 (b), (c), (d), (f), 60.335(b), 60.335(c)(1), (3), (e), (f), 07/01/02	F			

<b>Condition Number</b>	<b>Condition, Emission Standard, or Work Practice</b>	<b>Enforceability (Federal = F) (State = S)</b>	<b>Description</b>	<b>Testing</b>	<b>MRRR Reference</b>
2.2.3	Order No. 02AQER-3949 Second Amendment Issued 11/17/04 Approval Conditions 3.1.2, 3.4.1, 3.4.2, 3.4.3, 3.6.2, 3.6.3.2, 3.6.4.1, 3.6.4.2, 3.6.7, 3.7.1	F	CO emissions shall be ≤ 50 ppm and 19.1 lbs/hr (hourly average ambient temperature between 0 °F and 100 °F) or ≤ 100 ppm and 41.0 lbs/hr (hourly average ambient temperature between -40 °F and 0°F) or 361 lbs/hr for startup/shutdown/step to idle/load change conditions until a revised emission factor can be developed during the performance testing – All limits corrected to 15% O <sub>2</sub> on a one-hour average and when the turbine is operated between 90 and 100% NGG – CO emissions shall not exceed 93.3 tons per year on a 12-month rolling time period	RM 10	<b>7M, 8M,, 9M</b>
2.2.4	Order No. 02AQER-3949 Second Amendment Issued 11/17/04 Approval Conditions 3.1.3, 3.4.9, 3.6.6, 3.6.7	F	PM-10 emissions shall not exceed 1.2 lb/hr (one-hour average) and 4.4 tons per year (12-month rolling time period) – All limits filterable plus condensable	RM 5 and RM 201 or RM 202	<b>7M, 8M</b>
2.2.5	Order No. 02AQER-3949 Second Amendment Issued 11/17/04 Approval Conditions 3.1.4, 3.4.7, 3.6.7, 3.7.2 <div style="border-top: 1px solid black; padding-top: 5px;">40 CFR 60.333(b), 334(b)(2), 60.335(b), (d), 07/01/02</div>	F <div style="border-top: 1px solid black; padding-top: 5px;">F</div>	Fuels with sulfur content greater than 0.8 percent by weight shall not be combusted – SO <sub>2</sub> emissions shall not exceed 0.5 lb/hr (one hour average) or 1.9 tons per year (12-month rolling time period)	RM 20 and ASTM D 4084-94, 1072-90	<b>6M, 9M</b>

<b>Condition Number</b>	<b>Condition, Emission Standard, or Work Practice</b>	<b>Enforceability (Federal = F) (State = S)</b>	<b>Description</b>	<b>Testing</b>	<b>MRRR Reference</b>
2.2.6	Order No. 02AQER-3949 Second Amendment Issued 11/17/04 Approval Conditions 3.4.8, 3.6.7	F	VOC emissions shall not exceed 1.4 tons per year (12-month rolling time period)	RM 25A or RM 18	7M
2.2.7	Order No. 02AQER-3949 Second Amendment Issued 11/17/04 Approval Condition 3.3.2	F	SoLoNO <sub>x</sub> operation mode shall account for at least 50% of the operating time of unit 8A		9M
2.2.8	Order No. PSD-01-06 First Amendment Issued 11/14/02 Approval Conditions 1, 6 ..... Order No. 02AQER-3949 Second Amendment Issued 11/17/04 Approval Condition 3.3.3 ..... 40 CFR 60.11(d), 07/01/02	F  F  F	Good combustion control will be utilized in order to minimize emissions at all times – The Solar Titan Combustion Turbine shall be fueled only by pipeline quality natural gas		4M, 7M
2.2.9	Order No. 02AQER-3949 Second Amendment Issued 11/17/04 Approval Condition 3.1, 3.1.1 (BACT for NO <sub>x</sub> )	F	NO <sub>x</sub> emissions shall be controlled by the use of dry low NO <sub>x</sub> control (SoLoNO <sub>x</sub> )		4M
2.2.10	Order No. 02AQER-3949 Second Amendment Issued 11/17/04 Approval Condition 3.1.2 (BACT for CO)	F	CO emissions shall be controlled by use of lean pre-mix combustion and good combustion practice		4M
2.2.11	Order No. 02AQER-3949 Second Amendment Issued 11/17/04 Approval Conditions 3.1.3, 3.1.4, 3.2.1 (BACT for PM-10, SO <sub>2</sub> , TAP's)	F	Emissions of PM-10, SO <sub>2</sub> , and TAP's shall be controlled by exclusive use of pipeline quality natural gas and good combustion practice		4M, 6M

<b>Condition Number</b>	<b>Condition, Emission Standard, or Work Practice</b>	<b>Enforceability (Federal = F) (State = S)</b>	<b>Description</b>	<b>Testing</b>	<b>MRRR Reference</b>
2.2.12	40 CFR 60.7(a)(4), 07/01/02	F	Any modification to plant or operating procedures shall be reported to Ecology 60 days prior to such modification		<b>11M</b>
2.2.13	Order No. 02AQER-3949 Second Amendment Issued 11/17/04 Approval Condition 3.10.1	F	Approval Order and O&M Manual shall be in the working vicinity and available for Ecology review		<b>2M</b>
2.2.14	Order No. 02AQER-3949 Second Amendment Issued 11/17/04 Approval Conditions 3.9, 3.9.1, 3.9.1.1, 3.9.1.2, 3.9.1.3, 3.9.1.4, 3.9.1.5, 3.10.8	F	<ul style="list-style-type: none"> <li>Operation and maintenance of unit 8A shall be conducted in a manner consistent with the NOC and PSD applications and O&amp;M Manual.</li> <li>The O&amp;M manual for unit 8A shall be maintained, followed and updated.</li> <li>Unit 8A shall be properly operated and maintained in a manner consistent with good air pollution control practice for minimizing emissions.</li> </ul>		<b>4M, 10M</b>
	Order No. PSD-01-06 First Amendment Issued 11/14/02 Approval Condition 13	F			
	40 CFR 60.11(d)	F			
2.2.15	Order No. 02AQER-3949 Second Amendment Issued 11/17/04 Approval Condition 3.10.7	F	If operation of unit 8A is discontinued for 18 months, Order No. 02AQER-3949 First Amendment may be rescinded. Ecology may extend the 18-month period upon satisfactory showing that the extension is justified.		<b>7M</b>

### 2.3 Section #3, Compressor Unit 8B (SoLoNO<sub>x</sub> Solar Titan Gas Turbine, 17,800 hp)

### TABLE 2.3

<b>Condition Number</b>	<b>Condition, Emission Standard, or Work Practice</b>	<b>Enforceability (Federal = F) (State = S)</b>	<b>Description</b>	<b>Testing</b>	<b>MRRR Reference</b>
2.3.1	Order No. DE 97AQ-E135 Issued 08/27/97 Approval Condition 3.1	F	Opacity shall not exceed 10%, averaged over a six (6) minute period	RM 9	<b>5M</b>
2.3.2	Order No. DE 97AQ-E135 Issued 08/27/97 Approval Condition 9.1	F	No visible emissions shall be allowed beyond the property line	RM 9 RM 22	<b>5M</b>
2.3.3*	Order No. DE 97AQ-E135 Issued 08/27/97 Approval Conditions 2.1, 2.3, 2.4, 3.2, 3.2(a), 3.2(b), 3.2(c), 3.3, 5.4, 5.5, 6, 6.1, 6.2, 6.3, 6.4, 6.6, 7, 7.1, 7.2, 7.3, 7.4  40 CFR 60.7(b), 60.8(b), (c), (d), (f), 60.331(i), 60.335(b), (c)(1), (3), (e), (f), 07/01/02	F  F	NO <sub>x</sub> emissions shall be ≤ 42 ppm @ 15% O <sub>2</sub> and ISO conditions (1-hr average) while operating the turbine at peak load – Annual NO <sub>x</sub> emissions shall not exceed 114.3 tons per year	RM 20	<b>7M, 12M, 13M</b>
2.3.4	Order No. DE 97AQ-E135 Issued 08/27/97 Approval Conditions 3.4	F	CO emissions shall not exceed 50 ppm volume basis @ 15 % O <sub>2</sub> (dry) when operating the turbine at full load – CO emissions shall not exceed 83.3 tons per year	RM 10	<b>7M, 12M, 13M</b>
2.3.5	Order No. DE 97AQ-E135 Issued 08/27/97 Approval Condition 3.6	F	Particulate matter emissions shall not exceed 1.6 tons per year	RM 5 and RM 202	<b>6M, 12M</b>

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2.3.6	Order No. DE 97AQ-E135 Issued 08/27/97 Approval Condition 3.7	F	Fuels with sulfur content greater than 0.8 percent by weight shall not be combusted	RM 6	13M
	40 CFR 60.333(b), 334(b)(2), 60.335(b), (d), 07/01/02	F			
2.3.7	Order No. DE 97AQ-E135 Issued 08/27/97 Approval Condition 1.1	F	The unit 8B turbine shall be a SoLoNO <sub>x</sub> Solar Titan 130S natural gas fired turbine/compressor		4M
2.3.8	Order No. DE 97AQ-E135 Issued 08/27/97 Section 4. BACT and Section 5. T-BACT (NO <sub>x</sub> , PM, SO <sub>2</sub> , CO, TGNMO's)	F	Use of dry, low-NO <sub>x</sub> combustion technology – combustion of no fuel other than natural gas – use of advanced, automated combustion controls – limiting the amount of sulfur in the natural gas		4M, 6M
2.3.9	Order No. DE 97AQ-E135 Issued 08/27/97 Approval Condition 9.4	F	Approval Order shall be in the working vicinity and available for Ecology review		2M
2.3.10	Order No. DE 97AQ-E135 Issued 08/27/97 Approval Conditions 4, 4.1, 4.2, 4.3, 4.4, 4.5, 9.5	F	<ul style="list-style-type: none"> <li>Operation and maintenance of unit 8B shall be conducted in a manner consistent with the NOC and PSD applications and O&amp;M Manual.</li> <li>The O&amp;M manual for unit 8B shall be maintained, followed and updated.</li> <li>Unit 8B shall be properly operated and maintained in a manner consistent with good air pollution control practice for minimizing emissions.</li> </ul>		4M, 14M
	40 CFR 60.11(d)	F			



Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2.3.11	Order No. DE 97AQ-E135 Issued 08/27/97 Approval Condition 9.2	F	Order No. DE 97AQ-E135 becomes void if operation of unit 8B is discontinued for 18 months		7M

#### 2.4 Section #4, Compressor Unit 8C (Cooper Rolls Coberra 125 Avon, 14,300 hp)

Compressor Unit 8C is subject to those conditions, emission standards, and work practices included in Section 1. “Standard Conditions”, Section 2.1 “Section #1 Facility Wide Requirements” and the associated Monitoring Recordkeeping and Reporting Requirements in Section 3.

#### 2.5 Section #5, Auxiliary Power Generator (Caterpillar Model G3516)

**TABLE 2.5**

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2.5.1	Order No. 02AQER-3949 Second Amendment Issued 11/17/04 Approval Condition 3.5.1	F	Opacity shall not exceed 5 percent (6-minute average)	RM 9	5M
2.5.2	Order No. 02AQER-3949 Second Amendment Issued 11/17/04 Approval Condition 3.4.10	F	CO emissions shall not exceed 5.40 lbs/hr (one hour average)	RM 10	6M
2.5.3	Order No. PSD-01-06 First Amendment Issued 11/14/02 Approval Conditions 5, 8	F	NO <sub>x</sub> emissions shall not exceed 6.41 lbs/hr (one hour average) and 0.48 tons/year (12-month rolling time period)	RM 7E	6M, 15M
	Order No. 02AQER-3949 Second Amendment Issued 11/17/04 Approval Conditions 3.4.11, 3.8.3, 3.8.7	F			

<b>Condition Number</b>	<b>Condition, Emission Standard, or Work Practice</b>	<b>Enforceability (Federal = F) (State = S)</b>	<b>Description</b>	<b>Testing</b>	<b>MRRR Reference</b>
2.5.4	Order No. 02AQER-3949 Second Amendment Issued 11/17/04 Approval Condition 3.4.12	F	VOC emissions shall not exceed 0.90 lbs/hr (one hour average)	RM 25A	<b>6M</b>
2.5.5	Order No. 02AQER-3949 Second Amendment Issued 11/17/04 Approval Condition 3.4.13	F	SO <sub>2</sub> emissions shall not exceed 0.04 lbs/hr (one hour average)	RM 6	<b>6M</b>
2.5.6	Order No. PSD-01-06 First Amendment Issued 11/14/02 Approval Conditions 3, 7	F	Hours of operation shall not exceed 150 hours per year (12 month rolling time period)		<b>15M</b>
	Order No. 02AQER-3949 Second Amendment Issued 11/17/04 Approval Condition 3.3.4	F			
2.5.7	Order No. PSD-01-06 First Amendment Issued 11/14/02 Approval Conditions 2, 6	F	The auxiliary generator shall be fueled by pipeline quality natural gas		<b>6M</b>
2.5.8	Order No. 02AQER-3949 Second Amendment Issued 11/17/04 Approval Condition 3.3.4	F	The auxiliary generator shall be operated for emergency purposes		<b>4M</b>

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2.5.9	Order No. PSD-01-06 First Amendment Issued 11/14/02 Approval Condition 13	F	<ul style="list-style-type: none"> <li>• Operation and maintenance of the auxiliary generator shall be conducted in a manner consistent with the NOC and PSD applications and O&amp;M Manual.</li> <li>• The O&amp;M manual for the auxiliary generator shall be maintained and followed.</li> <li>• The auxiliary generator shall be properly operated and maintained.</li> </ul>		4M, 10M
	Order No. 02AQER-3949 Second Amendment Issued 11/17/04 Approval Conditions 3.9, 3.9.1, 3.9.1.1, 3.9.1.2, 3.9.1.3, 3.9.1.4, 3.9.1.5	F			

### **3. Monitoring, Recordkeeping, and Reporting Requirements (MRRR)**

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[WAC 173-401-630(1)], [WAC 173-401-615(1)(a), (b)]

#### **GENERAL**

**1M.** The permittee shall conscientiously monitor site operations and promptly report any deviations.

[WAC 173-401-615(1)(b), 09/16/02]

**2M.** At least once every twelve (12) months, the permittee shall review actual operations and any other relevant information to determine if facility operations are being conducted in accordance with each specific requirement.

The permittee shall maintain records that include the date such reviews occur, the name of the person conducting the review, the information reviewed, summary information on any deviations identified and date and time when corrective action was initiated and completed.

[WAC 173-401-615(1)(b), 09/16/02]

**3M.** The permittee shall maintain records of all complaints received. Ecology shall be notified within three (3) working days of receipt of any complaints. The permittee shall address and respond to all complaints within three (3) working days of receipt of the complaint. The recordkeeping shall include the following with regard to the complaint and the associated deviation:

- 1) A record of all written complaints, complaints received by telephone or complaints received in person,
- 2) Time, date, and duration of the deviation,
- 3) Cause of the deviation,
- 4) Estimate of excess emissions and magnitude of deviation, and
- 5) Corrective action taken, and the results of such action.

Specifically related to odors, the following shall apply:

Odors from the source shall be controlled by preventing unnecessary release of natural gas and other substances producing obnoxious odors at ground level and by minimizing such emissions from the exhaust stack. In the event that odor from the facility is detected beyond the property boundary of the facility, Ecology shall be notified of this fact. Within 180 days following such notification, the permittee shall implement remedial measures to control odor and shall report in writing to Ecology on their effectiveness. In the event that odor from the project is detected beyond the boundary of the project following notification and the remedial action period, Ecology may order the permittee to take specific measures to control odor. These measures, subject to approval by regulatory agencies where appropriate, may include, but shall not be limited to, an increase in stack height and installation of capture and treatment system at the location at which odor-causing substances are used.

[WAC 173-401-615(1)(b), 09/16/02], [Order No. 02AQER-3949 Second Amendment, Issued 11/17/04, Approval Conditions 3.8.4, 3.10.1]

**4M.** At least once every twelve (12) months, the permittee shall perform a complete review of the Operation and Maintenance manuals, permit application materials (Notice of Construction and PSD) and other relevant documents for the referenced unit and associated equipment. The purpose of this review shall be to verify that the emission unit and associated equipment is being operated in accordance with the documents stated above and with good air pollution control practices in mind.

At least once every six (6) months, the permittee shall perform a review of the operation and maintenance parameters as included in the Operation and Maintenance manual for each affected emission unit and associated equipment.

The permittee shall maintain records that include the date such reviews occur as well as the name of the person conducting the review. Upon discovery that any equipment is being operated in a manner inconsistent with any of the above mentioned documents, the permittee shall initiate corrective action within two (2) business days. All such discoveries shall be reported to Ecology as required by Standard Condition 1.13.1 of this permit.

[WAC 173-401-615(1)(b), (c), 09/16/02]

**5M.** The following shall apply generally, facility wide:

Monitoring – At least once per calendar quarter, the permittee shall perform complete walk-around surveys for the purpose of determining the presence of visible emissions throughout the facility site. The surveys shall be conducted during daylight hours and while the facility is under normal operation. If any visible emissions are present, regardless of the source and including fugitive emissions, the permittee shall implement corrective actions to reduce the visible emissions. If the visible emissions are not corrected within three (3) days, the permittee shall conduct a RM 9 test on the source of visible emissions within seven (7) days.

Recordkeeping – Information for each survey indicating the date the survey was performed, the name of the person performing the survey, the weather at the time of the survey, an indication of whether any visible emissions were observed, a description of the cause of the visible emissions, the corrective action taken, and the results of such action. All records shall be retained for a period of five (5) years.

Reporting – Monthly reporting of deviations shall be performed as described in Standard Condition 1.13.1, as well as annual certification of compliance as described in Standard Condition 1.13.3. Any monthly deviation reports documenting visible emissions observed shall include the time, date and duration of the deviation, a description of the cause of the visible emissions, the corrective action taken, and the results of the corrective action. In the event that any RM 9 test as required above documents visible emissions in excess of the applicable standard, a copy of the RM 9 form shall be submitted to Ecology as part of the monthly deviation report.

[WAC 173-401-615(1)(b), 09/16/02]

**6M.** Semi-Annually – As part of the semi-annual monitoring report, the permittee shall submit parametric monitoring data for parameters that are used to calculate emissions. This may include actual fuel usage, actual hours of operation, actual steam production, etc.

Annually – As part of the annual emissions inventory submittal required under Standard Condition 1.13.5, emissions shall be quantified by multiplying the appropriate recorded operating parameter (fuel usage, hours of operation, steam production, etc..) by an emission factor derived from the most recent source testing. If test-derived factors are unavailable, use the most recent emission factor published by USEPA. In the event that the most recent published data provides a range of emission factors, the calculation shall be performed using the most conservative factor within the provided range. Use of less conservative emission factors may be used only upon written approval by Ecology. In the event that USEPA emission factors are either inappropriate or unavailable, the permittee shall propose an alternative emission factor (or emission estimation method) that may be used upon written approval by Ecology.

Calculations should be adjusted for percent oxygen as required by the applicable requirement and should indicate pollutant emission rate and concentration in the same units as the limit(s) specified in the applicable requirement(s). The emission inventory submittal shall include a statement clearly indicating the emission factor that is being used, justification for the use of the emission factor, clear identification

of all operating parameters used in the calculational method, and an example of the calculational method used.

[WAC 173-401-615(1)(b), 09/16/02], [Order No. PSD-01-06 First Amendment, Issued 11/14/02, Approval Condition 8], [Order No. 02AQER-3949 Second Amendment, Issued 11/17/04, Approval Condition 3.6.7]

**7M.** Source testing as referenced shall be conducted at least once every five years.

Semi-Annually – As part of the semi-annual monitoring report, the permittee shall submit parametric monitoring data for parameters that are used to calculate emissions. This may include actual fuel usage, fuel type, actual hours of operation, actual steam production, etc.

Annually – As part of the annual emissions inventory submittal required under Standard Condition 1.13.5, emissions shall be quantified by multiplying the appropriate recorded operating parameter (fuel usage, hours of operation, steam production, etc..) by an emission factor derived from the most recent source testing.

Calculations should be adjusted for percent oxygen or percent carbon dioxide as required by the applicable requirement and should indicate pollutant emission rate and concentration in the same units as the limit(s) specified in the applicable requirement(s). The emission inventory submittal shall include a statement clearly indicating the emission factor that is being used, justification for the use of the emission factor, clear identification of all operating parameters used in the calculational method, and an example of the calculational method used.

Specifically for unit 8A, the following shall apply:

- 1) Annual (12-month rolling) emissions of NO<sub>x</sub> and CO shall be monitored by summing the unit's emissions in each of the temperature ranges and adding the emissions from startup, shutdown, load change, and step-to-idle conditions. Emissions estimates shall be made using the most recent source test data for each temperature range or operating condition. If source test data is not available for a certain temperature range or operating condition, calculations shall assume emissions equaled the applicable limit.
- 2) Emissions during startup, shutdown, load changes and step-to-idle periods shall be counted towards compliance with the annual emission limits, and shall be based upon vendor recommendations, source data or other acceptable method of measuring excess emissions.
- 3) Emissions of NO<sub>x</sub> and CO from unit 8A for the previous 12-month period shall be calculated and submitted as part of the semi-annual monitoring report.

[WAC 173-401-615(1)(b), 09/16/02], [Order No. PSD-01-06 First Amendment, Issued 11/14/02, Approval Conditions 9(c), 10, 12(c)], [Order No. 02AQER-3949 Second Amendment, Issued 11/17/04, Approval Conditions 3.4.3, 3.6.3.2, 3.7.1], [Order No. DE 97AQ-E135, Issued 08/27/97, Approval Conditions 3.3, 3.5]

#### **UNIT 8A – (Solar Titan Gas Turbine, 19,500 hp)**

**8M.** Periodic performance testing shall be conducted on the compressor unit 8A as described below.

- 1) Source testing for NO<sub>x</sub> shall be conducted quarterly for the first two years (as measured from the October 1-3, 2002 testing). Subsequently, testing frequency shall be determined as follows:
  - a) If source test results are less than or equal to eighty percent (80%) of all permitted limits, source testing frequency may be reduced to once every three (3) years.
  - b) If any source test results greater than eighty percent (80%) of any permitted limit, source testing frequency shall be conducted at least annually.

- 2) Source testing for CO shall be conducted annually for the first two (2) years (as measured from the October 1-3, 2002 testing). Subsequently, testing frequency may be reduced to once every three (3) years upon Ecology approval.
- 3) The following general conditions shall apply to all testing:
  - a) Testing for filterable and condensable particulate matter shall be conducted upon written notification by Ecology. Any testing shall be conducted in conjunction with the next scheduled NO<sub>x</sub> testing.
  - b) The testing will consist of at least three (3) runs. The NO<sub>x</sub> emission rate shall be calculated from the observed NO<sub>x</sub> emission rate using the equation found in 40 CFR 60.335(c)(1) in order to correct for ISO standard day conditions. The testing shall be conducted consistent with all requirements of 40 CFR 60 Subparts A and GG.
  - c) When testing the turbine in SoLoNO<sub>x</sub> mode, testing shall be conducted as close as practical to 100% NGG, 94% NGG, and 90% NGG.
  - d) When testing the turbine for transient emissions, testing shall be conducted as close as practical to 90% NGG, 75% NGG (idle), and a point between 75% and 90% NGG operating out of SoLoNO<sub>x</sub> mode. The average of these tests shall be used to develop an emission factor to be used to determine transient emissions.
  - e) Opacity observations using RM 9 shall be conducted for at least one six minute period during each run of the source testing. The results of each RM 9 test shall be submitted as part of the test report.
  - f) An independent testing firm shall conduct the testing and shall submit a test plan for Ecology approval at least thirty (30) days prior to the source testing.
  - g) The permittee shall notify Ecology of the date of the source testing at least thirty (30) days prior to the date of testing. The permittee shall notify Ecology as soon as possible if any planned source testing is cancelled or rescheduled.
  - h) The test report shall be sent to Ecology within sixty (60) days after the testing.
  - i) Ecology may require testing for additional pollutants as is deemed necessary. The appropriate EPA reference method shall be used for testing of each pollutant.
  - j) Alternate methods of testing and alternate testing requirements may be proposed by the permittee in writing to Ecology. Permission for use of alternate forms of testing and requirements must be approved in writing by Ecology.

[Order PSD-01-06 First Amendment, Issued 11/14/02, Approval Conditions 4, 9(b), 12(b), 12(e)], [Order No. 02AQER-3949 Second Amendment, Issued 11/17/04, Approval Conditions 3.5.1, 3.6.3, 3.6.3.1, 3.6.3.1.1, 3.6.2, 3.6.3.1.2, 3.6.3.1.3, 3.6.4.1, 3.6.4.2, 3.6.5, 3.6.6, 3.6.7, 3.6.8, 3.6.9, 3.6.11, 3.6.12], [WAC 173-401-615(1)(b), 09/16/02], [WAC 173-401-630(1), 09/16/02], [40 CFR 60.8(b), (c), (d), (f), 60.335(b), (c)(1), (3), (d), (e), (f), 07/01/02]

**9M.** The following conditions shall apply to the monitoring, recordkeeping, and reporting required for unit 8A.

- 1) The permittee shall conduct monitoring as follows:
  - a) Hours of operation of the turbine. Total hours of operation shall be broken down into hours operating in SoLoNO<sub>x</sub> mode, hours operating in startup/shutdown/step-to-idle/load change, and hour operating under other conditions as appropriate.

- b) Continuous monitoring of CO is required. An installed counter on the turbine shall be set to perform a check every 1/100<sup>th</sup> of an hour (36 seconds) to keep track of when the pilot light is on. The data collected by the counter (total number of hours operating in and out of SoLoNO<sub>x</sub> mode) shall be utilized as described under **7M** to calculate emissions. Another compliance determination method may be performed if approved in writing by Ecology.
  - c) The permittee shall monitor sulfur content of pipeline quality natural gas at least once every six (6) months as well as during source testing. Sulfur content testing shall consist of ASTM D 4468-85 and ASTM D 4084-94.
  - d) Fuel consumption.
  - e) The ambient temperature at the input to the gas turbine shall be monitored continuously.
- 2) The following recordkeeping specific to unit 8A shall be retained for a period of five (5) years and kept in an organized, legible manner readily available at either the facility site or the permittee's regional office in Spokane for inspection by Ecology personnel.
- a) Records shall be kept of all periods of downtime for monitors related directly to emissions estimation.
  - b) A daily log shall be kept of the hours of routine operation (90-100% NGG) and the hours of operation dealing with start-up and shut-down.
  - c) Regular O&M records shall be kept at the source.
  - d) Fuel consumption.
  - e) Sulfur monitoring records shall be readily accessible at either the facility site or the permittee's regional office in Spokane. The underlying 1-hour average data shall be accessible within a reasonable time period upon written request by Ecology.
  - f) The ambient temperature at the input to the gas turbine shall be recorded continuously.
  - g) Records documenting occurrence and duration of startup, shutdown, and malfunction of unit 8A, or any period during which monitoring equipment required by this AOP is inoperative.
- 3) Reporting specific to unit 8A shall be conducted in accordance with the following.
- a) Fuel consumption.
  - b) Total duration that the turbine is operated at an ambient temperature greater than or equal to 0°F, total duration that the turbine is operated at an ambient temperature less than 0°F, and total duration that the turbine is operated out of SoLoNO<sub>x</sub> mode. The report shall also specify the breakdown of duration for each operational mode as specified under 1) of this MRRR above.
  - c) Total annual NO<sub>x</sub> emissions as required by **7M**.
  - d) The permittee shall submit representative daily average sulfur content data for each six-month reporting period. Data from other periods shall be available to Ecology upon request.
  - e) Calendar date of monitoring period.
  - f) Identification of any days for which NO<sub>x</sub> (or other) data were not obtained, including reasons for not obtaining sufficient data and description of corrective actions taken.
  - g) The results of any monitor audits or accuracy checks.

[Order No. PSD-01-06 First Amendment, Issued 11/14/02, Approval Conditions 9(a), 12(c), 12(d)], [Order No. 02AQER-3949 Second Amendment, Issued 11/17/04, Approval Conditions



3.3.2, 3.5.2, 3.6.7, 3.7.1, 3.7.2, 3.8.2, 3.8.5, 3.8.7, 3.9.1], [WAC 173-401-630(1), 09/16/02],  
[WAC 173-401-615(1)(b), 09/16/02], [40 CFR 60.7(b), 60.334(b)(2), 07/01/02]

**10M.** The permittee shall create, follow, and update an O&M manual for compressor unit 8A and the auxiliary generator. Manufacturers' instructions may be referenced. The O&M manual shall be maintained in an up-to-date manner, well organized, and easily accessible for inspection by Ecology personnel. The O&M manual shall be updated to reflect any modifications to the emission units or operating procedures. Failure to follow the O&M manual and the adequacy of the O&M manual will be two of the factors considered by Ecology in determining whether the emissions units are properly operated and maintained. The following minimum information shall be included in the manual:

- 1) Normal operating parameters for the emissions units,
- 2) A maintenance schedule for the units,
- 3) Monitoring and recordkeeping requirements that apply to the units,
- 4) A description of the monitoring procedures, and
- 5) Actions for abnormal control system operation.

[Order No. 02AQER-3949 Second Amendment, Issued 11/17/04, Approval Conditions 3.9, 3.9.1, 3.9.1.1, 3.9.1.2, 3.9.1.3, 3.9.1.4, 3.9.1.5], [WAC 173-401-630(1), 09/16/02]

**11M.** In the event of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, permittee shall provide notice as required. This notice shall be postmarked sixty (60) days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. Ecology may request additional relevant information subsequent to this notice. These requirements are in addition to any pre-construction review requirements as outlined under Standard Condition 1.20.

[40 CFR 60.7(a)(4), 07/01/02]

#### **Unit 8B (SoLoNO<sub>x</sub> Solar Titan Gas Turbine, 17,800 hp)**

**12M.** Periodic performance testing shall be conducted on the compressor unit 8B as described below.

- 1) Source testing for NO<sub>x</sub> shall be conducted once every five (5) years (as measured from the initial source testing that occurred on May 12, 1999), unless one of the following occurs:
  - a) If source test results are greater than 80 percent (80%) of the permitted limit and less than or equal to the permitted limit, source testing frequency shall be increased to once every two (2) years until further testing indicates emissions that are less than 80 percent (80%) of the permitted limit.
  - b) If any source test results are greater than the permitted limit, source testing frequency shall be increased to once every calendar year until the results of two consecutive tests are less than eighty percent (80%) of the permitted limit.
- 2) The source testing schedule for CO shall follow the schedule for NO<sub>x</sub> testing.
- 3) The following general conditions shall apply to all testing:
  - a) Testing for filterable and condensable particulate matter may be required if any of the following occur:
    - i) Applicable opacity limits are exceeded,
    - ii) Procedures detailed in the O&M manual are not followed, or

- iii) If conditions 2.3.2, 2.3.9, 2.3.10, or 2.3.11 are not followed.
- b) The testing will consist of at least three (3) separate runs each at loads of 30, 50, 75, and 100 percent of peak load or at four other points that are representative of the turbine's normal operating range. Peak load is defined in 40 CFR 60.331(i) as 100% of the manufacturers design capacity of the gas turbine at ISO standard day conditions. The NO<sub>x</sub> emission rate shall be calculated from the observed NO<sub>x</sub> emission rate using the equation found in 40 CFR 60.335(c)(1) in order to correct for ISO standard day conditions. The testing shall be conducted consistent with all requirements of 40 CFR 60 Subparts A and GG.
- c) Opacity observations using RM 9 shall be conducted for at least one six minute period during each run of the source testing. The results of each RM 9 test shall be submitted as part of the test report.
- d) An independent testing firm shall conduct the testing and shall submit a test plan for Ecology approval at least thirty (30) days prior to the source testing.
- e) The permittee shall notify Ecology of the date of the source testing at least thirty (30) days prior to the date of testing. The permittee shall notify Ecology at least 24-hours prior to the test if any planned source testing is cancelled or rescheduled.
- f) The test report shall be sent to Ecology within sixty (60) days after the testing.
- g) Ecology may require testing for additional pollutants as is deemed necessary. The appropriate EPA reference method shall be used for testing of each pollutant.
- h) Alternate methods of testing and alternate testing requirements may be proposed by the permittee in writing to Ecology. Permission for use of alternate forms of testing and requirements must be approved in writing by Ecology.

[Order No. DE 97AQ-E135, Issued 08/27/97, Approval Conditions 2.1, 2.3, 2.4, 3.2, 3.2(a), 3.2(b), 3.2(c), 3.4, 3.6, 5.4, 5.5], [WAC 173-401-615(1)(b), 09/16/02], [WAC 173-401-630(1), 09/16/02], [40 CFR 60.8(b), (c), (d), (f), 60.331(i), 60.335(b), (c)(1), (3), (d), (e), (f), 07/01/02]

**13M.** The following conditions shall apply to the monitoring, recordkeeping, and reporting required for unit 8B.

- 1) The permittee shall conduct monitoring as follows:
  - a) Hours of operation of the turbine.
  - b) The permittee shall monitor sulfur content of pipeline quality natural gas in accordance with the most recent custom fuel monitoring schedule approved of by EPA or any other more stringent requirement.
  - c) Fuel consumption.
  - d) The custom fuel monitoring schedule as approved by EPA shall be followed. The schedule contains the following requirements:
    - i) The sulfur content of the natural gas shall be monitored semi-annually. The permittee shall utilize appropriate procedures within ASTM D 3031-82 to convert all sulfur compounds in the natural gas to hydrogen sulfide. Thereafter, the permittee shall utilize ASTM D 4084-94 to analyze sulfur content of the natural gas. The permittee is not prohibited from utilizing other monitoring methods as prescribed in 40 CFR 60.335(d).

- ii) Records documenting a constant supplier or source of fuel shall be maintained. A substantial change in fuel quality shall be considered as a change in fuel supply. Records shall document all turbine operation on fuels other than pipeline quality natural gas.
  - iii) Sulfur monitoring reports shall be submitted to EPA and Ecology semi-annually.
  - iv) The permittee shall report any changes in supplier or source of fuel within sixty (60) days of such a change. The permittee shall report use of any fuel other than pipeline quality natural gas within sixty (60) days of such use.
  - v) Nitrogen monitoring is waived for the combustion of pipeline quality natural gas.
- 2) The following recordkeeping specific to unit 8B shall be retained for a period of five (5) years and kept in an organized, legible manner readily available at either the facility site or the permittee's regional office in Spokane for inspection by Ecology personnel.
- a) Natural gas usage records (totals for each month and calendar year),
  - b) Hours of turbine operation (totals for each month and calendar year),
  - c) A file of initial and subsequent source testing results,
  - d) A copy of the O&M manual and records,
  - e) A description of the nature and details of any emergency or other situation that constitutes a deviation. This recordkeeping requirement may be met by retaining a copy of deviation reports submitted to Ecology.
  - f) Records documenting occurrence and duration of startup, shutdown, and malfunction of unit 8B, or any period during which monitoring equipment required by this AOP is inoperative.
- 3) Reporting specific to unit 8B shall be conducted in accordance with the following.
- a) Natural gas usage (totals for each month including totals for each calendar year),
  - b) Hours of turbine operation (totals for each month including totals for each calendar year),
- [Order No. DE 97AQ-E135, Issued 08/27/97, Approval Conditions 3.7, 6, 6.1, 6.2, 6.3, 6.4, 6.6, 7, 7.1, 7.2, 7.3, 7.4], [WAC 173-401-630(1), 09/16/02], [WAC 173-401-615(1)(b), 09/16/02], [40 CFR 60.7(b), 60.333(b), 334(b)(2), 07/01/02]

**14M.** The permittee shall follow and update an O&M manual for compressor unit 8B. The O&M manual shall be maintained in an up-to-date manner, well organized, and easily accessible for inspection by Ecology personnel. Manufacturers' instructions may be referenced. Emissions that result from failure to follow the operating procedures contained in the O&M manual or manufacturer's operating instructions may be considered proof that the equipment was not properly installed, operated and/or maintained. The following minimum information shall be included in the manual:

- 1) Normal operating parameters and design specifications for the control systems,
- 2) A maintenance schedule and maintenance procedures for the control systems,
- 3) Monitoring and recordkeeping requirements,
- 4) A description of the monitoring procedures, and
- 5) Actions to be taken in response to abnormal control system operation.

[Order No. DE 97AQ-E135, Issued 08/27/97, Approval Conditions 4, 4.1, 4.2, 4.3, 4.4, 4.5],  
[WAC 173-401-630(1), 09/16/02]

**Auxiliary Power Generator (Caterpillar Model G3516)**

- 15M.** The following conditions shall apply to the monitoring, recordkeeping, and reporting required for the auxiliary power generator (Caterpillar Model G3516).
- 1) The permittee shall monitor hours of operation by installing and using a non-re-settable time totalizer to measure the hours of generator operation.
  - 2) The following recordkeeping specific to the generator shall be retained for a period of five (5) years and kept in an organized, legible manner readily available at either the facility site or the permittee's regional office in Spokane for inspection by Ecology personnel.
    - a) Hours of operation per rolling 12-month period.
    - b) Emissions of NO<sub>x</sub> per rolling 12-month period, calculated once per month.
    - c) The permittee shall maintain a log dealing with auxiliary generator operation. The log shall identify the reason for operation and hours of operation.
  - 3) Reporting specific to the generator shall be conducted in accordance with Standard Condition 1.13 as well as semi-annual emissions reporting required by **6M**. Additional records may be requested by Ecology in the future.

[Order No. PSD-01-06 First Amendment, Issued 11/14/02, Approval Conditions 3, 5, 7], [Order No. 02AQER-3949 Second Amendment, Issued 11/17/04, Approval Conditions 3.8.3, 3.8.7], [WAC 173-401-630(1), 09/16/02], [WAC 173-401-615(1)(b), 09/16/02]

#### 4. Inapplicable Requirements

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Ecology has determined that the entire source, including all emission units, is not subject to the following requirements at the time of permit issuance. Some of the requirements listed below may become applicable during the permit term due to an invoking event, even though the requirement is deemed inapplicable at the time of permit issuance. Such requirements shall therefore be met on a timely basis by the permittee through submittal of a compliance schedule, per WAC 173-401-510(2)(h)(iii)(B).

Inapplicable Requirement	Requirement Description	Explanation
40 CFR 64	Compliance Assurance Monitoring (CAM)	None of the emission units at the facility are subject to CAM. The auxiliary generator and the compressor unit 8C do not have a control device. Unit 8A does not have emissions of any criteria pollutant in excess of 100 tpy. Compressor unit 8B does meet two of the CAM criteria; i.e. it has potential emissions of NO <sub>x</sub> in excess of 100 tpy and it is subject to an emission limitation for this pollutant. However, the only control that unit 8B is equipped with is dry low NOX combustion. Per the CAM preamble (“Low NOX burner technology...(is) not included in the definition of control device”, <i>Federal Register, Wednesday, October 22, 1997, Vol. 62, No. 204, page 54913</i> ), this technology has been determined to not constitute an active control device. Thus, unit 8B does not meet all three criteria necessary in order to be subject to CAM.